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NOTICE OF ALLOWANCE AND FEE(S) DUE

22429

7590

03/20/2009

LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD SUITE 300 ALEXANDRIA, VA 22314

EXAM	INER			
DOAN, PHUOC HUU				
ART UNIT	PAPER NUMBER			
2617				

DATE MAILED: 03/20/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/584,639
 06/26/2006
 Woo-Yong Lee
 123054-06079419
 5027

TITLE OF INVENTION: APPARATUS FOR ADAPTIVE RESOURCE ALLOCATION FOR MULTI-CHANNEL COMMUNICATION SYSTEM, AND A

METHOD THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further ndicated unless correcte naintenance fee notifica	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees wi condence address;	ll be i and/or	nailed to the current (b) indicating a sepa	correspon rate "FEE	dence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee(s	s) Transmittal. This rs. Each additional	certifi paper,	can only be used for cate cannot be used for such as an assignment ling or transmission.	or any oth	er accompanying	
22429	7590 03/20				Certi	ficate	of Mailing or Transı	nission	
1700 DIAGONA SUITE 300		BERNER, LLP		I her State addre trans	eby certify that this s Postal Service wi essed to the Mail mitted to the USPT	Fee(s th suff Stop O (57) Transmittal is being licient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited t class ma above, or te indicat	I with the United til in an envelope being facsimile ed below.
ALEXANDRIA	, VA 22314								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIR	MATION NO.
10/584,639	06/26/2006		Woo-Yong Lee			12	3054-06079419		5027
ITLE OF INVENTION IETHOD THEREOF	: APPARATUS FOR AI	DAPTIVE RESOURCE A	ALLOCATION FOR M	AUL"	N-CHANNEL CO	MMU:	NICATION SYSTEM	, AND A	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	Ι	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	C	06/22/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
DOAN, PH	UOC HUU	2617	455-452000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The ified below, no assignee soletion of this form is NO	data will appear on tl T a substitute for filing (B) RESIDENCE: (C	he pa g an a CITY	tent. If an assigned ssignment. and STATE OR CO	OUNT	RY)		
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			overpayment, to I	Depós	it Account Number		(enclose ar	extra cop	by of this form).
_ ~ .	tus (from status indicated s SMALL ENT1TY statu	,	☐ b. Applicant is no	long	er claiming SMALI	L ENI	TTY status. See 37 CF	R 1.27(g)	0(2).
OTE: The Issue Fee and terest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regis	tered a	ttorney or agent; or th	e assignee	or other party in
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n application. Confident abmitting the completed his form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (1.14. This collection is depending upon the interest of the control of the contro	s esti indivi iffice	mated to take 12 m dual case. Any con - ILS Patent and T	inutes nment: 'radem	to complete, including s on the amount of time ark Office, U.S. Depa	g gatherin ne you red rtment of	g, preparing, and quire to complete Commerce, P.O.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,639	06/26/2006 Woo-Yong Lee		123054-06079419	5027	
22429 75	590 03/20/2009	EXAMINER			
LOWE HAUPTN	MAN HAM & BERN	DOAN, PHUOC HUU			
1700 DIAGONAL	ROAD		ART UNIT	PAPER NUMBER	
SUITE 300 ALEXANDRIA, VA 22314			2617 DATE MAILED; 03/20/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 261 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 261 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/584,639	LEE ET AL.		
Notice of Allowability	Examiner	Art Unit		
	PHUOC DOAN	2617		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	⁄e	
1. This communication is responsive to <u>02/23/2009</u> .				
2. The allowed claim(s) is/are <u>1,2,4-6,11-21 and 24</u> .				
 Acknowledgment is made of a claim for foreign priority ur All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application No cuments have been received in this i	national stage application from the		
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet of the state of the sheet of th	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(d	office action of ags in the front (not the back) of all.		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application		
 Notice of Neterences Cited (PTO-932) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	6. Interview Summary	(PTO-413),		
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	e nent/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance		

DETAILED ACTION

Allowable Subject Matter

Claims 1-2, 4-6, 11-21, 24 are allowed.

The following is an examiner's statement of reasons for allowance:

1. As the Applicant states on remarks pages 7-8 of the amendment filed on 02/23/2009.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC DOAN whose telephone number is (571)272-7920. The examiner can normally be reached on 10:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER KINCAID can be reached on 571-272-

Application/Control Number: 10/584,639 Page 3

Art Unit: 2617

7922. The fax phone number for the organization where this application or

proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained

from the Patent Application Information Retrieval (PAIR) system. Status

information for published applications may be obtained from either Private

PAIR or Public PAIR. Status information for unpublished applications is

available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access

to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PHUOC DOAN/

03/10/09

/Lester Kincaid/

Supervisory Patent Examiner, Art Unit 2617